

	1	60
Human	MATAGGGSGADPGSRGLLRLLSFCVLLAGLCRGNSVERKIYIPLNKTAPCVRLLNATHQI	
Mouse	MATTRGGSGDPGSRGLL-LLSFSVVLAGLCGGNSVERKIYIPLNKTAPCVRLLNATHQI	
Drosophila	MEMR-----LNAASIWLL-ILSYGATIAQGER---TRDKMYEPIGG-ASCFRRLNGTHQT	
C.elegans	-----MKKWLV---IVLIIAGIRCDGFSDQVFRTLFIGEGNACYRTFNKTHEF	
	61	114
Human	GCQSSISGDTGVIHVVEKEEDLQWVLTG----P--NPPYMVLLSKHFTRDLMEKLKGR	
Mouse	GCQSSISGDTGVIHVVEKEEDLKWVLTG----P--NPPYMVLLLEGKLFTRDVMKCLKGT	
Drosophila	GCSSTYSGSVGLHLINVEADLEFLLSSP----P--SPPYAPMIPPHLFTRNNLMRLKEA	
C.elegans	GCQANRENENGLIVRIDKQEDFKNLDSCWNSFYPKYSGKYWALLPVNLIRRDITISQLKSS	
	117	168
Human	TSRIAGLAVSLTK----P-SPASGFSPSVQCPNDGFGVYSNSYGPEFAHCREIQWNSLG-	
Mouse	TSRIAGLAVTLAK----P-NSTSSFSPSVQCPNDGFGIYSNSYGPEFAHCKKTLWNELG-	
Drosophila	GPKNISVVLINR----T-NQMKQFSHELNCNPQYSGLNSTS-ETCDASNPAKNWNPWG-	
C.elegans	-KCLSGIVLYNSGESIHPGDESTAASHDAECPNAASDYLLQDKNEEYCERKINSRGAITR	
	171	228
Human	NGLAYEDFSFPIFLLDENETKVIKQCYQDHNLSQNGSAPTFFPLCAMQLFSHMHAVISTA	
Mouse	NGLAYEDFSFPIFLLDENETKVIKQCYQDHNLGQNGSAPSFPLCAMQLFSHMHAVISTA	
Drosophila	TGLLHEDFPFPIYYIADLDQVTKLEKCFQDFNNHNYETHALRSLCAVEVKSEFMSAAVNT	
C.elegans	DGLMKIDWRIQMVFIDNSTDLEIIEKCYSMFNKPKEDGSSGYPYCGMSFRLANMAAGNSE	
	232	275
Human	TCMRR-SS----IQSTFSIN-PEIVCDPLSDYNVWSMLKP-----INTTGTLPK--DDRV	
Mouse	TCMRR-SF----IQSTFSIN-PEIVCDPLSDYNVWSMLKP-----INTSVGLEP--DVRV	
Drosophila	VCMRR-TN----FINNLGG---SKYCDPLEGRNVSPCTPESQQSETTLETVHT--NEKF	
C.elegans	ICYRRGKNDAKLFQMNI DSGDAPQLCGAMHSDNIFAFPTP-----IPTSPTNETIITSKY	
	278	330
Human	VVAATRLDSRSFFWNVAPGAESAVASFVTQLAAAEAL----QKAPDVTTL-PRNVMFVFF	
Mouse	VVAATRLDSRSFFWNVAPGAESAVASFVTQLAAAEAL----HKAPDVTTL-SRNVMFVFF	
Drosophila	ILVTCRLDTTTTFDGVGLGAMDSLGMFAVFTHVAYLLK---QLLPQSKD-LHNVLVFTF	
C.elegans	MMVTARMDSFGMIPEISVGEVSVLTSIIISVLAAARSMGTQIEKWQKASNTSNRNVFFAFF	
	331	384
Human	QGETFDYIGSSRMVYDMEKGKFP---VQLENVD--SFVELGQVALRTSLELWMHTDPVS	
Mouse	QGETFDYIGSSRMVYDMENGKFP---VRLENID--SFVELGQVALRTSLDLWMHTDPMS	
Drosophila	NGESYDYIGSQRFVYDMEKLQFP---TESTGTPPIAFDNIDFMLDIGTLDDISNIKLHA	
C.elegans	NGESLDYIGSGAAAYQMENGKFPQMIRSDRTHIHPIRPNELDYILEVQQIGVAKGRKYYY	

FIGURE 1A

	331		384
Human	QGETFDYIGSSRMVYDMEKGKFP----	VQLENVD--SFVELGQVALRTSLELWMHTDPVS	
Mouse	QGETFDYIGSSRMVYDMENGKFP----	VRLENID--SFVELGQVALRTSLDLWMHTDPMS	
Drosophila	NGESYDYIGSQRFVYDMEKLQFP----	TESTGTPPIAFDNIDFMLDIGTLDDISNIKLHA	
C.elegans	NGESLDYIGSGAAAYQMENGKFPQMIRSDRTHIHPIRPNELDYILEVQQIGVAKGRKYYV		
	385		439
Human	QK-NESVRN---QVEDLLATLEKSGAGVPAVILRRPNQSQPLPPSSLQRFLLR-ARNISGV		
Mouse	QK-NESVKN---QVEDLLATLEKSGAGVPEVVLRRLAQSQALPPSSLQRFLLR-ARNISGV		
Drosophila	LN-GTTLAQ---QILERLNNYAKS-PRYGFNLNQSEMSAHLPPPTSAQSFLLRDPNPNAL		
C.elegans	HVDGERYQQNKQTQDRVIDRIERGLRSHAFDLEKPSGSGDRVPPASWHSFAKADAHVQSV		
	440		491
Human	VLADHSGAFHNKYYQSIYDTAENINVSYP----	EWLSPEEDLNFTVTD-----AKALADVA	
Mouse	VLADHSGSFHNRYQSIYDTAENINVTYP----	EWQSPPEEDLNFTVTD-----AKALANVA	
Drosophila	ILNARP---TNKYYHSTYDDADNVDFTYANTSKDFTQLTEVNDFKSLNPDLSQMKVRNVS		
C.elegans	LLAPYG---KEYEYQRVNSILDKNEWTE-----EREKAIQEIEAVSTA---ILAAAADYV		
	492		550
Human	TVLGRALYELAGGTNFSDTVQADPQTVTRLLYG-FLIKANNSWFQSIILRQDLRSYLGDP		
Mouse	TVLARALYELAGGTNFSSSIQADPQTVTRLLYG-FLVRANNSWFQSIILKHDLSYLDLRP		
Drosophila	SIVAMALYQTITGKEYTGTKVANPLMADEFLYC-FLQSADCPLFKAASYPGSQ--LTNLP		
C.elegans	GVETDEVVAKVD-KKLITTIFDCLITSNFWFDCDFMQKLDGGRYHKLFSYGFNQKSTYI		
	551		608
Human	LQHYIAVS--SPTNTTYVVQYALANLTGTVVNLTREQCQDPSKVPSENKDLYEYSWVQGP		
Mouse	LQHYIAVS--SPTNTTYVVQYALANLTGKATNLTREQCQDPSKVPNESKDLYEYSWVQGP		
Drosophila	PMRYISVLGGSQESSGYTYRLLGYLLSQLQPDHNRDCTD---LP-----LHYFAG----		
C.elegans	SMESHTAF---PTVLHWLTIFALGSDKETLNVKSEKSCSHLGQFQ----AMTYTYWQPNP		
	609		665
Human	LHSNETDRLPRCVRSTARLARALSPAFELS---	QWSSTEYSTWTESRWKDIRARIFLIAS	
Mouse	WNSNRTERLPQCVRSTVRLARALSPAFELS---	QWSSTEYSTWAESRWKDIQARIFLIAS	
Drosophila	FN-N-----IGECRLTTQNYSHALSPAFLIDGY-DWSSGMYSTWTESTWSQFSARIFLRPS		
C.elegans	YTGN-----FSCLKSAIVKKVMVSPAVDSTPEEEMNTRYSTWMESVYIIIESVNLYLMED		
	666		709
Human	KELELITLTVGFG-ILIFSLIVTYCINAKADVLFIAPREPGAVSY-		
Mouse	NELEFITLIVGFS-TLVFSLIVTYCINAKADVLVAPREPGAVSY-		
Drosophila	NVHQVTTLVSGIV-VLIISFCLVYIISSRSEVLFEFLPASNAALFG		
C.elegans	ASFEYTMILIAVISALLSIFAVGRCSETTFIVDEGEPAAEAGGEPL-		

FIGURE 1B